

THE TECH

VOL. XXIX. NO. 99.

BOSTON, MASS., THURSDAY, FEBRUARY 24, 1910

PRICE ONE CENT

MRS. FRANCIS TO HELP TRAIN CHORUS GIRLS

Schedule Of Show Performances Will Probably Be Completed This Week

Mrs. James Francis is coming to Boston in a few weeks to help Mr. Francis train the ballet of twenty-four dancing girls for "The Queen of the Cannibal Isles," Tech Show 1910. Mrs. Francis trained the six dancing girls for the Show of two years ago, who were one of the features of the Show, making a great hit in the skipping-rope and in the dust-pan dances. She was unable to come up last year on account of illness, but she has completely regained her health, and will be up to give Tech Show 1910 the benefit of her wide theatrical experience.

As "Sallie Lomas" Mrs. Francis originated the "Champagne Dance" that was such a success in "The Silver Slipper" a few years ago. She was also one of the Floradora Sextette in the play of that name; and it was then that Mr. Francis met her. She has always taken a great interest in the Show, and has been a great factor in some of the former successes of that production.

Show rehearsals were held all day Washington's Birthday, when the members of the chorus were put on the floor for the first time. All the "green chorus girls" experienced, at first, quite some difficulty when it came to singing and dancing at the same time. The chorus is coming along in first-rate shape, the men putting more snap into the music at every rehearsal. A bit more practice in dancing will see the men on par with former Tech Show choruses.

The principals are going at their work with the vim of old, experienced professionals. All the fellows are working hard to make this year's cast a record breaker.

General Manager Clapp hopes to be able to announce the schedule of the Show the latter part of this week. He has been busy for the past few weeks making flying trips, signing contracts with the theatres, etc. There will in all probability be five or six performances of the Show—two in Boston at Shubert's theatre, and three or four out of town.

NAVAL BRIGADE WANTS MEN

The Massachusetts Naval Brigade wishes it made known that it is in need of men of good size and build. The organization is under the supervision of the Navy Department and has a station ship of its own, the U. S. S. Chicago, lately a part of the Naval Academy training fleet.

Men are required to devote one evening a week to drills of different kinds connected with duties afloat and ashore. They will be required to go on a cruise of eight days, coming in the latter part of July in each year. Last year the cruise was made upon the ships of the North Atlantic Battleship Squadron.

This furnishes an excellent opportunity for any man who has a liking for the water to become familiar with Navy methods and drills, to see something of the coast and to enjoy many short cruises over week ends in small boats, torpedo boats and the large ships.

For further information apply to Lieut. L. F. Gates, 1102 Barristers' Hall, Boston.

London, Feb. 23.—The second-class cruiser, Bristol, was launched at Clyde Bank today. It is the first British warship to be fitted with turbine engines of the Curtis (American) type.

PROF. KENNELLY TALKS ON WIRELESS TELEGRAPHY

Hints At New Apparatus Under Construction To Eliminate Interference

"It is possible with new apparatus now under construction to cut out all amateur interference," said Prof. Kennelly of Harvard before the Electrical Engineering Society in the Union last evening.

Wireless telegraphy as the newest and most wonderful of inventions has enormous possibilities. Messages are now capable of being sent 4,000 miles, and this distance will be augmented constantly if improvements continue as they have in the past ten years. In fact, Dr. Kennelly expressed his hopes that signals might be sent half-way around the earth.

In regard to the numerous discussions in newspapers and magazines concerning the "horrors" of amateur wireless operators, Dr. Kennelly admitted that stations suffered inconveniences by these youthful aspirants, but felt no fear of consequences resulting from their interference, for there is one new system which eliminates all such interferences. This system he declined to discuss, but nevertheless he expressed his confidence in it.

The question has arisen as to how far wireless telegraphy shall take the place of cables. It is interesting to note that few cables have been supplanted by wireless installations, and their replacement by wireless telegraph is far away.

Wireless messages are carried twice as far over the ocean as on land and much easier in the night than in the day-time. Since the sun has such a marked effect in decreasing the efficiency of wireless signals, official and commercial reports are sent at night almost entirely. This effect is not evident between stations near each other, but is noticeable in cloudy, as well as in fair weather.

The main difference between wireless and wire telegraphy is the fact that electric fluxes are channelized by the use of wires, while in wireless telegraphy there is no guide for the fluxes except the ground. The elimination of this characteristic defect in wireless is possible to a certain degree, but there is no practicable method applicable except wires as yet. There is also room for improvement in the sensitiveness of receiving apparatus, which shall maintain low resistances. The receivers in use now, although very sensitive, have too high a resistance. Wireless messages are not capable of being directed and thus an operator must wait for the signature to determine where the message is from.

The average speed of communication by wireless is fifteen words a minute, although this speed is often augmented to twenty-five words a minute. The international code is the continental code, except in the United States, where the Morse code is still in vogue. This differs from the continental code in only about ten words. Considerable progress is expected to be made in respect to speed in the near future.

Dr. Kennelly gave a diagrammatic exposition of the principle of the Hertz dumb bell oscillator as applied to wireless telegraphy, showing in detail how the wireless telegraph is in reality semi-waves of the Hertz oscillators.

At the close of his lecture Dr. Kennelly answered a few questions pertaining to his subject. Light refreshments were served.

TECHNICAL GRADUATES AS MANAGERS OF MEN

Sympathy The Keynote Of Success In Dealing With Foreign Laborers

Dr. G. W. Tupper spoke to the Technology Christian Association last evening on "The Technical Graduate as a Manager of Men." Dr. Tupper, through his experience in handling emigrants from foreign ports and through his study of the problem confronting the American nation of melting the various peoples together into one great whole, was recently made special correspondent to the Boston Transcript to write a series of articles dealing with "The Great Emigration Ports."

Tech men through their training will hold positions of great responsibility controlling big concerns and large amounts of money. They must know how to control intricate machines and must understand them thoroughly. The most difficult machines to manage, it must be remembered, are men. The man who knows how to deal with men has an asset more valuable even than the technical training dealing with the management of inanimate machines.

The men with whom a Tech graduate will have to deal come mainly from across the sea, emigrants from southeastern Europe. Their customs and traits of character differ from our own and must be understood in order that the men may be handled to the best advantage. They should be studied carefully by the student while he is yet learning the management of technical machines.

Sympathy is the keynote of success in dealing with these foreigners. They should not be treated as material asset, but as human beings. They often are very ambitious, desirous of college education and intent upon serving society. Many times they are highly capable, rising from positions at \$1.50 per day to positions controlling contracts for hundreds of thousands per year.

The fundamental idea of democracy lies in the trust of one another. Lack of this trust is what prevents the natives of India, with their shrewd intellects, from ever being capable in management. The best management is through appeal to the intellect and not through the use of the whip.

We are all representative of our country. Foreigners see America through us. It is our opportunity to make friends or enemies, our duty to cater to the best and noblest of all with whom we come in contact.

After a short discussion of the advisability of substituting the regular Union dinner at twenty-five cents for the customary twenty-cent dinner in connection with the talk, the meeting adjourned with a short prayer.

Dr. Mann's bible class held in Trinity Parish House, followed the dinner. The subject discussed was "The Divinity of Christ."

Next week, Mr. H. D. Gallaudet of Central Church will address the Christian Association on the subject "Towers."

London, Feb. 24.—In the House of Commons yesterday Premier Asquith stated definitely that the government had no intention of introducing a home rule bill for Ireland during the present session.

Pekin, Feb. 24.—According to despatches received here today from Tokio, the annexation of Korea is foreshadowed in Japanese press reports, apparently inspired, and such annexation may occur at any moment.

DR. TALBOT DESCRIBES MODERN ILLUMINANTS

The Chemistry Of Substances Employed To Furnish Light Discussed

Professor Talbot addressed the Society of Arts on the "Chemistry of Modern Illuminants" last evening. The audience was large and interest was keen. Professor Talbot said he intended to deliver the lecture as advertised "as a simple story, in a simple manner, with little chemical nomenclature therein."

The professor began the talk with the candle. The old-fashioned rush lights were made by dipping reeds into tallow. These are used very little now. Modern candles have wicks of cotton yarn, flattened. The candle itself is formed by pouring paraffine into molds. Carbon dioxide gas and water vapor are the chief products of combustion in a candle light. The next illuminants discussed were oils, kerosene in particular. The state laws are very strict in regulating the grade of kerosene sold. The sale of oil which gives a gas inflammable below 100C. is forbidden. The lecturer showed the apparatus used in testing the gas given off by kerosene. Ammonia and sulphur are also products of combustion of this oil.

Acetylene was the next product discussed. This gas is somewhat dangerous because of its tendency to explode when mixed with air and heated. Professor Talbot took up the construction of the acetylene tanks used on automobiles. He also made a miniature acetylene flaming torch such as is used in rescue work at sea, and which blazes up when striking the water.

The Welsbach mantle was the next topic. The Welsbach people supplied Professor Talbot with lantern slides illustrating the manufacture of the mantles. The mantles are made of cotton or of a Chinese grass. Cotton is most used in this country. The mantles are woven and treated with thorium and cerium. Then the cotton is burned out and the mantle is shaped. It is dipped in a solution of collodion for packing. This collodion is what we burn out before using the mantle. The most brilliant light is given by the mixture of 99 per cent. thorium dioxide and one per cent. cerium dioxide.

The next Society of Arts lecture will be delivered by Prof. Percival Lowell on "Commerce," on March 9 in Huntington Hall.

CALENDAR.

Thur-day, Feb. 24.

- 7:30 Mining Engineering Society, Union. Illustrated Lecture by Prof. Daly on "Hawaiian Volcanoes."
- 8:00 Chemical Society, Union. Mr. W. W. Duncan on "Rubber Manufacture."
- 8:00 Basket-ball. Tech vs. Lowell Textile at Lowell.
- 8:00 Gym Meet at Salem.

Friday, Feb. 25.

- 1:00 1910 Class Meeting, Huntington Hall.
- 8:00 Union Entertainment.
- 8:00 Military Hop, M. I. T. Cadets, Howe Hall.

Saturday, Feb. 26.

- 3:00 Indoor Track Meet, 1912 vs. 1913, at Gym.
- 8:00 Basket-ball. Tech vs. Maine at Gym.
- 8:00 Gym Meet. Tech vs. Amherst at Gym.

THE TECH

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BOSTON, MASS., FEBRUARY 24, 1910.

Is it not about time that the sophomore class were aroused from the peaceful sleep which they have been enjoying this term? Class spirit is a strange thing and it takes time for it to develop. However, the splendid spirit and co-operation so marked last year is decidedly on the wane. The list of names published on the Union bulletin board representing unpaid dues is much too large. Non-support of student activities is in some cases excusable; but there seems to be no plausible reason why one should not pay his class dues. In the next two months the class of 1912 must act. Ballots for the election of the Technique 1912 Electoral Committee are soon to be mailed, and it should be remembered that in order to be "a member of the class of 1912 and vote" all dues must be paid. If you have not paid your dues do so at once. You can perform this duty to say the least. Think this over from all standpoints. If your name is posted on that list at the Union, get it off now.

GENERAL NEWS

TELEGRAPH NEWS OF THE MORNING.

WEATHER REPORT.

Boston, Feb. 24.—Another cold wave is on the way, according to Weather Forecaster Smith, and is due to reach Boston tonight. Just how low the temperature will go is problematical, but it will surely touch 8 above mark, says Mr. Smith.

At 8 o'clock today it was 26 above in Boston, and gradually colder going west, as far as Kansas, all of which is in the zero zone. At Bismarck, N. D., 26 below zero is registered.

At Palm Beach, Fla., where Mayor Fitzgerald is basking in the sun and zephyrs, the day started off at 72, with good prospects of reaching 90.

Philadelphia, Pa., Feb. 24.—Attacks were renewed yesterday by strike sympathizers on the street cars. Two policemen accompanied every car and mounted police constantly patrolled the streets on which the cars were run. Three have already been killed and more than a thousand persons been injured as a result of the strike which has lasted in this city for three days.

Boston, Feb. 24.—John H. Bickford, engineer and promoter of the proposed Boston & Eastern electric railroad and a recognized authority on transportation matters, in an interview today expressed his conviction that J. Pierpont Morgan is at the head of a powerful financial coterie which has planned the capture of all New England railroads, both steam and electric.

That President Mellen of the New Haven road does not intend to give the people of Boston the kind of electrification they expect, and that the proposed tunnel between the North and South stations can never solve Boston's traffic needs, is the firm belief of Engineer Bickford.

Cambridge, Feb. 24.—National Bank Examiner Ellis S. Pepper has discovered a shortage of \$144,000, or more, in the affairs of the National City Bank of Cambridge, and in one of the telegrams which he sent yesterday to Comptroller of the Currency Murray at Washington he named George W. Coleman, the bookkeeper, as the defaulter. The bank has been closed because of this shortage in the individual deposits. Coleman is sought by the Cambridge police. The amount said to be missing is more than the combined capital and surplus of the bank by about \$5,000, making the bank obviously insolvent.

New Haven, Feb. 24.—The freshmen and sophomores at Yale fought out their annual Washington's Birthday fence rush after chapel yesterday in a downpour of rain and upon a muddy campus. The "Y" men of the senior class, headed by Captain Edward H. Coy, had charge of the affair, giving the signal to start and stop, and later the decision as to the winner. The freshmen won by the decision, although after the rush stopped the hatless and caneless sophomores did the cheering under the idea that they had held the fence. The crowd of spectators was the largest in years. Aside from many bloody noses and torn clothing, there were few features.

Reykjavik, Iceland, Feb. 22.—An avalanche has overwhelmed Huipsdal on Dsa Fiord, and twenty-three persons were killed.

Philadelphia, Feb. 23.—Blood poisoning, hitherto considered an almost invariably fatal disease, and one whose onset is dreaded by every surgeon, can be cured by diphtheria anti-toxin, according to a report to the Philadelphia medical profession by Edward M. Deacon.

The discovery of this new and unlooked for power of diphtheria anti-toxin was made accidentally.

Central City, Ky., Feb. 24.—An explosion of gas in the mine of the Iron Mountain Coal Co. yesterday, fatally burned one miner and injured several others. Most of the men, however, escaped with slight burns. The woodwork in the mine caught fire and the mine is still burning.

Beaufort, N. C., Feb. 24.—The entire crew of 30 men of the British steamer Sroyo, which went aground Tuesday off North Carolina coast near Diamond Shoal, was taken off safely by the life-savers from Portsmouth Island Station.

Boston, Feb. 24.—For mutual protection and benefit, the manufacturers of the airships on exhibition in Mechanics Building have formed a new association this week. It is to be known as the National Association of Aeroplane Manufacturers. The principal purpose of the new organization is to provide mutual protection in case of infringement of patent rights.

This is the last day in which to see the first airship show ever held in the United States, for this evening, at ten o'clock, the exhibition of flying machines in Mechanics Building closes.

WASHINGTON, D. C.

Washington, Feb. 24.—It is probable that Commander Robert E. Peary will have to submit proofs of his discovery of the North Pole to the House Committee on Naval Affairs before that Committee reports any one of the several bills intended to officially recognize the explorer as the discoverer of the North Pole. This was decided upon at a meeting of the Committee today, and the sub-committee having charge of the Peary bills adopted a resolution calling upon the Secretary of Commerce and Labor to submit any official reports made by Peary or any proofs to substantiate his claim.

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Washington, Feb. 24.—Prof. Swain of Boston will argue in favor of forest reserves in the White Mountains, on which proposition the house agriculture committee is to begin hearings.

Washington, Feb. 24.—Victories of immense importance to the insurgent arms are told in dispatches being received today at the state department.

Gen. Chamorro with the main division of the insurgent army has completely evaded the government forces sent out to check him and by a flank movement has taken the city of Granada.

Washington, Feb. 24.—Senator Benjamin R. Tillman of South Carolina, continued his favorable progress today and, barring complications, it believed his recovery is assured.

FOREIGN.

Lisbon, Feb. 24.—The government is greatly perturbed by discovery of widespread revolutionary plot. Arrests of suspects are being made daily. Confidential information has reached authorities that a cargo of arms and ammunition for the revolutionists is being brought from Germany.



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DUAL GYM MEET

Technology Meets Amherst Here Saturday Evening

The gymnasium teams of Technology and Amherst will participate in a dual meet next Saturday evening at the Tech Gym. The meet will be pulled off in conjunction with the Basket-ball game between Technology and the University of Maine to be played that evening, and the two should furnish attraction enough to draw a large attendance. Admission to the event will be fifty cents, and inasmuch as the Gymnasium team is not included under the Athletic Association, all season tickets must be accompanied by twenty-five cents to secure admission.

entries are as follows:
Horizontal Bar.—Capt. W. D. Allen 1911, H. S. Gott 1910, and B. Darrow 1910.

Parallel Bars.—C. F. Doble 1910, H. S. Gott 1910, and S. S. Crocker.

Flying Rings.—Capt. W. D. Allen 1911, B. Darrow 1910, and Judd.

Tumbling.—H. S. Gott 1910, Wilson Horse.—S. S. Crocker. R. M. Jacoby 1910, and Bevan.

Club Swinging.—S. M. Baxter, and Denton.

LOST.—One drawing set. Finder please leave note at Cage for Althouse.

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NOTICES

MODERN LANGUAGES.

Beginning Wednesday, the 23d inst., exercises in the following subjects
will be held as indicated, instead of as heretofore.

Subject	Sec.	Hours	Room	Instructor
German I	Sec. a	Tuesday 8-9	30 Lowell	Dr. Kurrelmeyer
		Thursday 8-9	30 Lowell	Dr. Kurrelmeyer
		Saturday 8-9	30 Lowell	Dr. Kurrelmeyer
	Sec. b	Monday 4-5	21 Lowell	Mr. Meister
		Wednesday 4-5	21 Lowell	Mr. Meister
		Friday 4-5	21 Lowell	Mr. Meister
Italian		Tuesday 8-9	23 Lowell	Mr. Dike
French I	Sec. b	Thursday 8-9	23 Lowell	Mr. Dike
		Monday 8-9	23 Lowell	Mr. Dike
		Wednesday 8-9	23 Lowell	Mr. Dike
		Friday 8-9	23 Lowell	Mr. Dike

GERMAN I.

Students are assigned to sections as follows:

Section a.	Section b.
Achard, F. H.	Adler, J. E.
Babcock, H. A.	Capen, G. P.
Barnes, C. S.	Conant, A. D.
Bartlett, G. R.	Crawford, C. A.
Elcock, R. O.	Cromwell, P. C. Jr.
Harris, L. G.	Davis, E. W.
Murdock, F. D.	Garza, J.
Rand F. L.	Hayes, O. R.
Randall, R. A.	Morrison, A.
Ready, W. A.	Neily, E. S.
Sampson, G. B.	Rich, F. D.
Sondstein, L. M.	Sampson, R. D.
Sionsky, S.	Taylor, E. G.
Stevenson, W. C. H.	Wallis, R. B.
Tullar, R. J.	Warner, P. A.
Waterman, M. L.	White, P. D.
Weeks, R. W.	Woods, C. H.

February 21, 1910.

FRENCH COLLOQUIUM B.

This subject has been announced erroneously as coming on Thursday from 12-1. It comes on Thursday from 11-12, and recites to Professor Bigelow, in Room 31 Lowell. Students wishing to attend should see Professor Bigelow at the next exercise.

GERMAN II.

Commencing Monday, the 21st, Section 18 will recite to Dr. Kurrelmeyer in Room 30 Lowell, otherwise as heretofore; and Section 8 to Professor Vogel in Room 30 Lowell as follows:
Tuesday, 12-1.
Wednesday, 12-1.
Friday, 10-11.

ALL CLUBS.

Proofs will be left for all Clubs having inserts in Technique at the Cage.

If proofs are not called for in five days the editors can not be responsible for the copy.

NOTICE.—All Juniors who have not as yet signed their names under the Class Picture will please do so at once. The picture is on the Union Bulletin Board.

1910 class meeting Friday 1.00 P. M. in Huntington Hall.

GYM. TEAM.

All men be at the North Station at 6.30 tonight. Meet with Salem Y. M. C. A.

1913 RELAY.

All members of 1913 Relay Team, report at Union Thursday, Feb. 24, at 4.10 P. M. Wm. Katzenberger, Mgr.

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